January 29.

# EAM TRAWLING BOARD

REPORT IS EXHAUST

ductions and Recommenations in Full-Commitee Takes in Both Sides of Dcean for Evidence and Makes Many Pertinent Asertions and Gives Reaons Therefor-All Conentions Threshed Out at Length - Collaborators Unanimous in the Conclusions Reached.

The Beam, or Otter, Trawling Report in which so much terest has been shown by all those engaged in the fishing dustry of New England is one of the most thorough and haustive ever issued from the Bureau of Fisheries in recent ars. Proofs of the complete report received at the Times fice this morning, show the great labor which those upon hom the responsibility for making it have done. Whatever by be the opinion of the interested fishing people of Glouster or Boston, on either side, as to the final opinion reached the committee, one thing is evident to any who will read refully the whole extended report; and that is their deducons and recommendations have been reached only after the ost careful and painstaking thought and research. The mes today publishes the remarks of Commissioner of Fishries Smith and also of the Committee, in submitting the reert, also the deductions, conclusions and recommendations f the report in detail.

ive an idea of the extensiveness eport, to publish it entire would tate the use of every page of nes, even though no advertisre in the issue. Knowing the atterest, however, evinced in all at New England fishing centers nes will publish tomorrow some principal arguments upon which nmittee based its final findings, r with some very interesting

The Times is thus early enabled to give its readers the first and only extended story of the report, through the kindness of Congressman Gardner who, realizing the great interest, did not wait for the publication of the report, but hurried the proof sheets to the Times office.

It is to be hoped that the report will be read carefully by all interested and however much one may differ from its

committee worked will be carefully considered and also that the committee be given credit for a difficult and unthankful task most thoroughly and exhaustively performed.

The Commissioner's Statement,

In transmitting the report and recommendations to the Secretary of dressed to the Commissioner of Fish-Commerce, Comissioner of Fisheries Hugh M. Smith says among other

. On September 30 30, 1912, Mr. A. B. Alexander, assistant in charge of the division of statistics and methods of the fisheries, was ordered to proceed to Boston and other places to determine on methods for prosecuting the inquiry, but it was not until December 28, 1912, that he was given definite authority to proceed with the work. Mr. Alexander had exclusive charge of the field of investigations, with headquarters in Boston. and, with the exception of insignificant intervals, was continuously in the field during the calendar year 1913; and he is responsible for the methods followed and the data collected

"Under the plan of investigation adopted, men in the employ of the Bureau were placed on a number of the vessels, both otter trawlers and trawl liners, to make personal observations and records of the practices of the fisheries and the character of the

"An effort was made to obtain men capable of understanding and reporting on the matters which came under observation and at the same time as free as possible from prejudice by reason of their vocations and previous associations.

"During June, 1912, the observers made three trips on otter-trawl vessels and recorded the data of 101 hauls of the nets. From January to December, 1913, 61 trips were made and 1,532 hauls were observed on otter tions, until recent date, at least, are trawlers; and from June to December, incomparable and a comparison, to be 1913, 17 trips and 90 sets of trawl lines of much value, must be of synchronwere observed on schooners.

"The field investigations were brought to a close in December, 1913, and on sion of 1863, or any other commission February 5, 1914, the Commissioner of Fisheries named for the consideration of the data and the preparation of a report a committee of three, of particularly the otter trawl, a great which Mr. A. B. Alexander was chairman and Messrs. H. F. Moore, assist- or that statement or came to this or

"The report speaks for itself and no this side of the Atlantic. review therefore by me is necessary, I will simply refer to the chapters condations, and submit them as the off-cial opinion of the bureau. While I taining the conclusions and recommenwas entirely unaware of the results progress of many years, and those of of the inquiries until the completion and signing of the report, I have carefully reviewed the work of the com-mittee, commend their labors, and indorse their findings as justified by the evidence."

Very interesting is the statement of the committee which prepared the otter trawl report. This statement pre-effacts the exhaustive report and is aderies. It says:

"We have been unable to comply with your injunction in regard to the time at which the report was to be rendered for the reason that we speedily found that the data acquired by the field investigations in 1913 were inadequate as a basis for conclusions which would be either just to all interests or commensurate with the importance of the subject. In order to reach any useful conclusions whatever portance of the subject. it has been necessary to consider the available facts presented by the history of otter trawling in Great Britain, and we decided that for this purpose it was advisable to go to the original official sources of information rather than to utilize the conclusions arrived at by the various commissions which have investigated the subject, and this has consumed much time, particularly as the inquiry had to be conducted without interference with many other duties.

'In reviewing the carges, conclusions, and results of various investigations of trawling in Great Britain, if must be borne in mind that the conaltions of the sea fisheries there have always been and still are very different from those in this country. There trawling has undergone a progressive evolution, here it has just begun in a small way at the modern end of that evolution, both in the development of the engines of that method of fishing and the fishes sought.

"Therefore, the early considerations of the subject of trawling have only a general, if any, application to the question in this country, as the condious and analogous conditions. What was concluded by the Royal Commisor select committee, or the fact that 40 years ago or at any time prior to the advent of steam trawling, and scientist or other authority made this ant in charge of scientific inquiry, and W. C. Kendall, scientific assistant, were members. the present day and that it applies on

Competition Cause of Complaint,

"Although the present conditions in

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tor that has been an ever-present presented would indicate. cause of complaint against each and competition.

"Therefore, most of the investigamainly of general economic signifiwhat different problem, and its conclusions and recommendations were in accordance with the evidence presented by the conditions of the time. Our investigations have the same charac- of fishes not previously taken in quanif we should be called on to conduct a similar inquiry in the future, we might find the conditions so changed as to conclusions different those we have now reached.

"This committee has based its findings of fact and its conclusions, so far as the conditions on the banks visited by American fishermen are concerned, wholly on the mass of material that has been accumulated in the Bureau of Fisheries; and the opinions of persons other than the members of the committee have been vigorously excluded from consideration.

We are pleased to be able to report complete accord in our deductions and unanimity in our recommendations.

A. B. ALEXANDER. H. F. MOORE. W. C. KENDALL.

#### Summary and Conclusions.

1. Otter trawls do not destroy the spawn of the commercially important demersal fishes, all of which have pelagic or floating eggs.

Otter trawls do not seriously disturb the lottom over which they are fished nor materially denude it of the organisms which directly and indirectly serve as food for commercial fishes.

The investigations conducted by the Bureau of Fisheries indicated that during 1913 trawling interfered but little with line fishing and caused practically no damage to the trawl lines. From the nature of the two fisheries, however, it is believed both cannot be extensively conducted on the same grounds without resultant accidental damage to or interference with the lines, especially in foggy

4. Otter trawls as compared with lines take a much larger proportion of commercial fishes too small to market. From January to May 3 per cent, of the cod and 11 per cent of the haddock, and from June to December 40 per cent, of the cod and 38 per cent. of the haddock were unmarketably small, while the lines caught practical- 1905 when the first steam trawler bely no such fish. These proportions were fully maintained in the respec-

they not only destroy more small fish was introduced, and, while the catch of tainable in respect to the east coast, the

"bones of contention" have apparently of the marketable fish. As, however, a been handed along little changed 'arge proportion of these smaller fish Britain; and finally, still little changed under natural conditions before reachhave crossed the Atlantic to America. ing the large or medium size, the efanalyzed, the allegations fects on the total supply of fish are against trawl fishing seem to have had less to a conceivable, but at present their origin in that one economic fac- indeterminable, degree than the data

6. Practically the only food fish every innovation in fishery methods which the otter trawl has added to the and appliances in whatever country- present yield of the fisheries on the banks is the "sole" of which about 600,000 pounds were caught in 1913. of which about tions and inquiries, while directly as- This is equal to about three times the cribable to localized self-interest, have quantity of hake, 36 per cent. of the been brought about by allegations cod and 5 per cent, of the haddock, or about 4 per cent, of the three com-The economic conditions, at bined marketed by the trawlers. On least, changed from period to period, the other hand, it is estimated that and each investigation had a some-this is less than one-third of the weight of the immature cod, haddock, and hake destroyed by otter trawls. The trawlers have not added greatly to the food supply by the introduction teristic, and it is not improbable that titles by the liners. They may have conferred some benefit on the consumer by catching and marketing larger quantities of the smaller and cheaper fishes of the cod family, provided, of course, that this does not induce the depletion of the ultimate supply. Both rawlers and liners catch considerable quantities of edible species for which they have failed to develop a market.

#### Has Affected Price Little or None.

7. There is but little evidence to show that the introduction of the otter ers have expressed and have endeavortrawl in the American fisheries has ed to arrive at independent conclusions had any material effect in keeping without prejudice from previous invesdown the price of fish. Since 1898 has been a gradual, although statistical information, fluctuating, increase in the price remersal fishes and since 1908 has kept close to or below the level of that year, and this is probably, to no small trary, can not be deduced. small and cheaper fish landed by the more or less strong presumptions one trawlers. The catch of the American trawlers, however, is too small in proportion to the total production of demersal fisheries to have a material effect on prices, and we have therefore xamined the price statistics of England to determine what light shed on the subject. We find that while, apparantely, the otter trawl reduced the cost of production of fish for a number of years after it became paramount in the fishery of that country, it did it to some extent by reducing the standards of size, and that recently there has been a rapid increase in the prices of fish which are now higher than ever. Undoubtedly the general increase in commodity prices has had some effect.

#### No Evidence Otter Trawlers Are Depleting Banks.

We have been unable to discover from the examination of official records, extending from 1891 to 1914, any evidence whatever that the banks frequented by the American otter trawlers are being depleted of their fishes. Since gan operations off the New England coast there have been fluctuations in tive classes of vessels fishing at the the total yield of the bank fisheries, same season on the same grounds, but they have been no more violent These young fish are practically all nor significant than in the period before 1905 when lines alone were used. those of England, and it is not possible 5. Otter trawls as compared with In fact, some of the heaviest yields retrawl lines market a much larger pro- corded in the line fishery have been the North Sea. portion of small fish, and, therefore, made in years since the otter trawl

this country are of recent and com-not utilized, but are biologically more line fishermen in 1914 on Georges Banks, in the North Sea. The same paratively sudden development, the wasteful, by reason of the smaller size South Channel, and Nantucket Shoals, where the otter trawlers operate, was less than half of that in the extraordithrough the various periods in Great would undoubtedly die or be destroyed nary year 1905, this was accompanied by a proportionate redution in the intensity of the fishery as measured by the number of trips to these grounds. The average catches per trip of had-dock and of cod, haddock, and hake combined have been considerable higher since 1910 than for any similar period of which we have record. The average catch of cod per trip to these banks has decreased since 1910, but it is higher than for any similar period prior to the introduction of otter trawl-As the liners catch, porportioning. ately, more cod and the trawlers more haddock on these banks, and as quantitatively the liners catch more of each the statistical facts of the fishery certainly do not indicate that it has yet show signs of depletion from the use of the otter trawl.

9. We recognize that the conclusions arrived at in the preceding section are necessarily inconclusive for the reason that the otter-trawl fishery in American waters is too recently established and relatively too small to have had a very material effect on the fish supply of the banks frequented. have therefore examined the accessible data relating to the fishery in England and Scotland, particularly that conducted in the North Sea, where it is most intensive and has been longest established. We have used the data without reference to the opinions othtigations of the subject. While the particularly that contained in the English reports. ceived by the fishermen for all kinds is more useful for the purpose than is of fish. The haddock has increased that pertaining to our own fishery, it is proportionately less than the other de- in recent years only that it is given in sufficient detail. Proof respecting the depletion of the fisheries, on the con-The most extent, due to the large quantities of possible has been the establishment of

> way or the other. 10. The cod, haddock, and plaice are the most important and abundant of the demersal fishes of the North Sea, and the three combined comprise about 75 per cent of the catch. English vessels take between 50 and 60 landed from the North Sea, and the large fish was approximately English trawlers alone take from 45 to tained in the cod and place 50 per cent. These three fishes are, therefore, the only ones which it is important to consider.

#### What English Figures Show.

The statistical data of the English fisheries indicate by a decrease in the total catch, in the average catch per unit of effort, and in the proportion of large fish to the total that probably the plaice fishery is being depleted. first two criteria also point to a decrease in the haddock, and it is believed that the third test fails to do so only because a lowering in standard of sizes makes the statistics in this particular misleading. The cod does not show indications of overfishing, probably because its different habits make it less vulnerable to the effects of the predominant fishery, steam trawling.

The statistics of Scotland are less satisfactory for our purpose than are to obtain sufficient separate data for We have therefore considered the fuller information ob-

fishery of which is prosecuted my species are discussed, the ca these by Scotch vessels in this Sea proper constituting about & cent. of the total yield of the that sea. The plaice show so depletion in the heavy decrease of total yield and of the average no vessel and in the proportion of fish to the smaller sizes. While haddock has increased in the catch, the average catch per vess fluctuated to an extent which a any deductions from the data ! tain; and there is a small decre the relative proportion of laws compared with the total. The increased in total catch and in the erage catch per vessel, but reli fewer larger fish were taken vears.

Considering the English and Su fisheries in the North Sea toget there is a strong presumption of fishing in the case of the plaice, siderable evidence of the same in respect to the haddock and w tically none concerning the col the steam trawler is overwhelm predominant in the fisheres fort species, it must be held responsib such overfishing as may have no

11. Three regions other than North Sea support more or less portant English trawl fisheries yi ing essentially the same species wh have been discussed. They are land, the White Sea, and the Pi Islands. Separate data com them are available for years; quent to 1905, and while the covered is too short to admit of tions of much value, it has been ployed for purposes of com with the North Sea.

In Iceland the total catch of haddock and plaice and the catch of each ,especially the showed heavy decreases, while the increased. In all species, but p larly the plaice, there was a de in the proportion of large sizes total.

In the White Sea the total cate all species increased from 1906 to but this was in part due to an in in fishery activity. As measure the quantity caught per trip the an enormous increase in cod, a increase in haddock, and a hear crease in plaice. much smaller in later years in the of the haddock, thus indicating the increase in the catch of species was due to the saving of er fishes previously discarded of sought.

In the Faroes there was a crease in the average catch of trip, owing mainly to an inch the smaller sizes, and a decre the haddock, accompanied by lar increase in the take of si The catch of plaice was neglis all years.

#### Comparison of Grounds

The data from these regions therefore in general confirma those relating to the North Sea ly, that there is a presum crease in the plaice, a probable decrease in the haddock, and no change in the numbers of

12. The North Sea area of about 152,000 squ which is not all equally produ part of which is resorted to or very little by English a

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Georges Bank, South Chan-Nantucket Shoals cover about uare miles, a considerable but ninate part of which is not reto by fishermen and presumit by fishes in large numbers.

913 English and Scotch (Aberotter trawlers only made 50,590 trips to the North Sea. Assumentire area of the sea to have ished, there was one trip to square miles. In the same year to Georges Bank, South , and Nantucket Shoals were by American otter trawlers, therefore had 30 square miles of to each trip.

unsatisfactory comparison is that we can give of the relaensity of the otter-trawl fishery North Sea and on the banks ted by the American trawlers. estimate respecting the North e unproductive bottom is inand the trawlers of other nathat the British are omitted estimate of 3 square miles is In the case of the American considerable unproductive also included, and while all are taken into account the of 30 square miles is also too ut in neither case can we estie error. The most specific inon concerns the Dogger Bank. an area of 6216 square miles. h English trawlers made 2196 1913, or approximately a trip 3 square miles.

deductions arrived at by the tee and the recommendations

consequence are here given in the very crux of the report:

#### Recommendations in Full.

e the facts before us show no or presumption of any deplethe fisheries on the banks freby American otter trawlers, ssible that the seeds of dameady have been sown and that uits may appear in the future the development of a wholly lated fishery eventually may reinjury where none now exists. atter presented for our considis the safeguarding of the food not only of the existing, but of generations, and we are thereconcerned with present conthan with those which may deess with the immediate interthe parties to the controversy ing otter trawling than with the interests of the entire counperpetuation of some sort of lve fishery for all time.

Trawling Not Dangerous. ave in the history of our own heries sufficient information to the belief that there is but nger of their depletion by line as at present conducted, but no such accumulation of data ig the recently introduced awl; and for an indication of ay be expected from it we must course to the history of the in other places. Otter trawleen practiced longest and has its greatest development in th Sea, where there appears to e evidence that it is being carto excess and that the fisheries ain fishes have suffered in nce. The problem before us, is to suggest measures for conditions in the American

trawl fishery in the North Sea, are be- should be exhausted. lieved to be in part due to the desden, (2) that the accumulation of manifested little or not at all. fishes in the cod end closes the aveto pass through in large numbers until the net is being hauled in, when the possibility of escape would be reduced of the mesh in the cod end of the net would probably result in an increase in the number of fish gilled, thus not only inducing little mitigation of the destruction of young fishes, but entailing additional labor in fishing the apparatus.

#### How to Regulate.

There remain three other methods of regulation: The absolute prohibition of the use of the otter trawl or similar apparatus; the restriction of the number of nets or vessels which may be employed; and the restriction of the area on which the apparatus may be used.

The first and most drastic measure would of course be most effective, but in view of the fact that it appears to be the excessive use of the otter trawl which has caused injury to the North Sea we do not regard it as justifiable to prohibit its use on the American banks where it is not yet shown to be injurious. In other words, our present information indicates that it is not fishing with otter trawl but overfishing which is to be guarded against. The fact that it is undoubtedly more destructive than line fishing is not sufficient for its condemnation, for the same objection can be raised with more or less validity to almost any other net fishery, and we do not know to what extent the destruction of young fishes in the open seas in reality injures the fisheries.

The regulation or restriction of the number of vessels or trawls permissible in the fishery we regard as objectionable for the reason that it would establish an actual or virtual monopoly. The regulation could be made effective only by the issuance of a limited number of licenses or permits, and this would involve either some selection or discrimination among the applicants by the issuing authority or an undiscriminating issuance of permits to the earlier applicants and their refusal to those making application after the predetermined number had been granted.

#### Limit Trawlers to Definite Grounds.

The restriction of the use of the otter trawl to certain definite banks and grounds appear the most reasonable just, and feasible method of regulation which has presented itself to us.

It would have the effect of automatically placing some limitation on the number of vessels engaged in the fishery, for the reason that caution would imposed on prospective investors by virtue of their knowledge that no on of the development of other fishing grounds were open to ex-

fish, and it has been proposed by cer- to reduce as far as possible such abus- may be different, and it will be nectain European authorities to reduce es or economic defects as may be in- essary to closely observe the developdrag on the net increases with its bur- to other areas where the evils would be ble.

> Any injury to the fishery the fishery might be restricted and, esfish likely to be most severely affected, banks in the western North Atlantic. would extend but little or not at all to the banks from which the otter trawl might be excluded. Therefore neither the whole, nor even the major part of our bank fisheries, could be depleted by any conceivable development of otter trawling under such restraint.

#### Effects Could Be Watched.

Being thus localized, inherent evils would more certainly manifest themselves, the effects could be more closely observed and more quickly and surely detected, the fishery could be kept under closer and more accurate observation, and it would be possible by comparison with the conditions on the prescribed banks to discriminate in some measure between accidental fluctuations in the abundance of the fishes and those which might be due to overfishing.

We therefore recommend that the taking of fishes, excepting shell-fishes, by means of the otter trawl or beam trawl, or any adaptation or modification of either, or by any other apparatus drawn over the bottom by a vessel in motion, be prohibited on all bottoms in the Atlantic Ocean, outside of territorial jurisdiction, north of the fortieth degree of north latitude, excepting Georges Bank, South Channel and Nantucket Shoals east of the meridian of Sankaty Head on the island of Nan-

#### Flounder Fishing Not Affected.

This will retain to the otter trawlers sufficient ground on which to prosecute their calling, it will not exclude the liners therefrom, and it will reserve to the latter exclusively the banks to which they make over two-thirds of their trips. It gives a large measure of absolute protection to the important lbs. fresh fish. line fisheries of New England, and at the same time will permit the development of an otter-trawl fishery for flounders and other bottom fishes from lbs. fresh fish. New Jersey southward on bottoms where they are not, and probably can not be, taken in large quantities by any other means. The flounder fishery of Massachusetts being conducted in terfitorial waters will not be interfered
The reculation can be readily enforced because the open areas are well known, well defined, and can be kept under surveillance. Moreover, every line fisherman in the area affected will be a self-constituted fish warden, prompted by every motive of selfinterest to bring infractions of the regulation to the attention of the proper authorities.

The injurious effects of the otter- ploitation if those allotted to them It must be understood that this recommendaion is based on what we be-It would cause the trawlers, for rea-lieve to be the conditions at this time. truction of large numbers of small sons of self-interest, to exercise care Next year or 10 or 20 years hence they its destructiveness by increasing the herent in the method and to eliminate ments of the future to the end that a size of the meshes of the net to di- those which are not essential to it situation shall not arise such as has mensions which will permit the es- The results of offenses against good arisen in the North Sea, which will be cape of fishes too small to market. We fishery practices would be imposed di-recognized as requiring correction, but do not regard this as an effective or rectly on the prime offenders and which will present such far-reaching feasible proposal for the reasons (1) would be mitigated to those using oth- and important economic aspects as to that the meshes tend to close as the er methods by their freedom of resort make rectification difficult or impossi-

in conclusion, we eraphatically stated which it to be our opinion that this regula-lo nues of escape there, and (3) that the might result from the development of tion will prove futile and an unneces-ifishes in any event would not attempt ofter trawling under such restriction sary imposition on American fisher-lwould be localized. It would mani- men unless Canada, particularly, and, h fest itself chiefly on the banks to which possibly, Newfoundland and France will take such action as will prevent: to a minimum. An increase in the size pecially in respect to the haddock, the or restrict the use of the trawl on thee

### TWO SHORE BOATS LAND FARES HERE

Two shore arrivals vesterday after noon and one this morning were the only sailing fares since yesterday.

The gill netters had a light day, about 15,000 pounds in all being landed.

#### Today's Arrivals and Receipts.

The arrivals and receipts in detail

Sch. Elva L. Spurling, shore, 5000 lbs. fresh fish,

Sch. Monitor, via Portland, 2000 1bs. salt cod.

Str. Mary F. Ruth, gill netting, 2000 lbs. fresh fish.

Str. Evelyn H., gill netting, 1500 lbs. fresh fish. Str. Bryda F., gill netting, 200 lbs.

fresh fish. Str. Ethel, gill netting, 2500 lbs.

fresh fish. Str. Sawyer, gill netting, 1500 lbs.

fresh fish.

Str. Enterprise, gill netting, 1000 lbs. fresh fish.

Str. Quoddy, gill netting, 1000 lbs. fresh fish.

Sch. Benjamin A. Smith, via Boston

Sch. Manomet, shore

Sch Adeline, shore,

Str. Enterprise, gill netting, 1000

#### Yesterday Afternoon Arrivals.

Sch. Mary P. Goulart, shore, 5000

Sch. Harriett, shore, 4000 lbs. fresh

## DRIVING THINGS

Sch. Teazer, Capt. Peter Dunsky, stocked \$4492 and the crew shared \$128.48 on the recent halibuting trip. This share is the largest of the winter. Captain Dunsky has stocked this year, since January 1, \$6631 and his crew have shared \$164 each.

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#### Off-Shores Have Fair Catches and Prices Continue Quite Satisfactory.

Boston receipts were fair this morning, 10 fares being reported at the new pier and one at T wharf.

The largest arrivals were schs. Fannie E. Prescott, 50,000 pounds; Arethu-50,000 pounds; Sylvania, 49,000

pounds; Richard, 40,000 pounds.

Dealers paid \$3.25 to \$5 a hundred pounds for haddock, \$4.50 for large cod, \$2.50 to \$3 for market cod, \$3 to \$6 for hake, \$2.50 to \$3.25 for pollock and \$1.50 for cusk.

#### Boston Arrivals and Receipts.

The arrivals and receipts in detail

Sch. Buema, 2000 haddock, 400 cod, 1500 hake.

Sch. Virginia, 35,000 haddock, 1000

Sch. Eva and Mildred, 1200 haddock, 1200 cod, 500 hake, 400 cusk, 2500 pol-

Sch. Fannie E. Prescott, 34,000 haddock, 13,000 cod, 1000 hake.

Sch. Arethusa, 28,000 haddock, 22,-000 cod.

Sch. Richard, 20,000 haddock, 16,000 cod, 3000 cusk, 200 hallbut.

Sch. Sylvania, 28,000 haddock, 21,000 cod, 3000 pollock, 400 halibut.

Sch. Alice, 4000 haddock, 2000 cod, 1000 hake, 4500 pollock.

Sch. Yankee, 2200 haddock, 600 cod, 700 hake.

Sch. Elizabeth W. Nunan, 3500 haddock, 400 cod, 1500 hake.

Haddock, \$3.25 to \$5 per cwt.; large cod, \$4.50 to \$5; market cod, \$2.50 to \$3; hake, \$3 to \$6, pollock, \$2.50 to \$3.25; cusk, \$1.50 to \$2; halibut, 19 cents per

#### TODAY'S FISH MARKET.

#### Salt Fish.

Handline Georges codfish, large, \$5 per cwt.; medium, \$4.25; snappers, \$3. Georges halibut codfish, large, \$5; medium, \$4.25.

Eastern halibut codfish, large, 4.25 medium, \$3.75; snappers, \$3.

Cusk, large, \$2.50; medium, \$1,75;

snappers, \$1.50. Hake, \$1.50. Haddock, \$1.75. Pollock, \$1.50.

Newfoundland herring, \$3.25 bbl. for salt bulk. \$4.25 per bbl. for pickled.

#### Fresh Fish.

Splitting prices: Haddock, \$1.10 per cwt.

Western cod, large, \$2.25; medum, \$1.50; snappers, 75c.

Eastern cod, large, \$2; medium,

\$1.50; snappers, 75c. All codfish, not gilled, 10c per 100 pounds less than above.

Hake, \$1.25.

Cusk, large, \$1.75; medium, \$1.15; snappers, 50c.

Pollock, round, 80c; dressed, 90c. Fresh halibut 161/2c for white and 10c for gray.

Newfoundland frozen herring, 3c per

## NEW FISH PIER SOME OF THE EVIDENCE AN

The Times today presents a full page, giving some of the data on which the Otter Trawl committee based its report, the deductions and recommendations of which were published in yesterday's issue. It will be seen that the scope of investigation covered a wide field. Besides the evidence and data given here, the committee also made an official investigation of the otter trawl fisheries of the North Sea, including the famous Dogger bank, supplementing this with official British government statements and figures. This part forms a large section of the main report.

little change in the proportions of ly. In the line fishery in South Chan-marketable and nonmarketable species nel, 7.8 per cent of the whole catch taken by the otter trawls in the first consisted of marketable cod and 41.1 and second halves of the year, respectively, but that during the period from there were practically no young of June 1 to December 31 the trawl lines these species. While all of the cod and catch a much larger proportion of non- haddock taken on lines were marketmarketable species than do the otter able, but 67 per cent of the cod and trawls, the difference being due to the 58 per cent of the haddock taken in larger number of dog-fishes taken on the otter trawls were saved, the rethe lines, 21.2 per cent of the whole maining 33 per cent and 42 per cent catch as compared with 2.8 per cent respectively being too small to sell. taken in the nets. During this period Summarizing, while the otter trawls the otter trawls observed took 88.2 per cent of marketable species and the proportion of total nonmarketable species taken by the two methods did not differ materially.

small for sale was comparatively small trawlers and from the dories in the in the otter-trawl fishery from Jan-line fishery. The testimony of the obuary to May inclusive, not being ma- servers on the vessels is that a very terially higher than the catch of im- large percentage or practically all of mature fish on lines in the latter half the immature fishes of marketable speof the year, but from June to Decem- cles are dead when thrown over from ber, inclusive, the otter trawls were the steamers, and the large percent-

tically no young haddock, while 2.4 per a much better chance to live, as they cent of the whole catch of the otter have not been subjected to the prestrawlers consisted of young cod and sure to which the netted fish are ex-22.3 per cent of young haddock re- posed and are immediately returned garded as too small to sell. Stated in to the water, although some of them are another form, 40 per cent of the cod killed or injured by being "slatted" and 38 per cent of the haddock taken against the sides of the dories. by the otter trawlers from June to De- In respect to the catch of unmarket-

#### ONE ARMED POLICEMAN.

a little kitten struggling in a pool of ple's sergeant major; open air came to the window she found that her strention to n., Cadet Agnes Prieberger, young the household cat. When the woman Charles A. Gunn in command, 19 Pittsfield woman was attracted to her tean street, Sunday school at 1,30 window by the continued meowing of During the heavy rain recently a

#### A THOUGHTFUL CAT.

It will be observed that there is but per cent and 22.4 per cent, respectivewere considerably less destructive to the young of marketable fishes on trawl lines 68.3 per cent, and of the Georges Bank than in South Channel, nonmarketable species the nets took they were in both cases incomparably 11.7 per cent and the lines 31.7 per more destructive than the lines fished cent. Eliminating the dogfish, the in South Channel or on all of the other grounds collectively.

The young fish not large enough to market are thrown overboard from The waste of marketable species too the vessels in the case of the otter relatively almost five times as destruc-tive of small fish as the lines.

ages of young cod, haddock, and hake shown in the preceding tables are to On the vessels under observation be regarded as an absolute waste. The the lines took no young cod and prac- young fishes taken on the lines have

cember were fish too small to market, able species there is not much differ-From January to May but 3 per cent of ence if the dogfish be eliminated from

the cod and 11 per cent of the had-consideration. All of the waste sperospect Street Methodist Episco-church, Rev. E. W. Lutterman,

; salvation meeting at 8. at 3 o'clock; outdoor service at water in the street. ets at 2,30; army meeting at the he Salvation Army, Adjutant and

nity Congregational church. sation uniting in the service at lent; as evening service, the conrst ememy ; sunday senool at 12 the result it was not much, rou are